FIGURE 1A

Nucleotide sequence of the partial PLC-1 from *Physcomitrella patens* (SEQ ID NO:1)

GCACGAGTCCAAGAAGGGGGATTTGGCGCAGGATCTATTGGGGGATGTGTTCTCGA
CTTACAGCGAGAATGGGAAGCTGGACGCCGAGGGGTTGCTGAAGTTCTTGCAGACA
GAGCAAGGGGATAGCAAGTCCTCTCTAGATGACGCCAAGCACCTAGTGGAGTTGAT
TCGGAATGAGAGACATAAGTCGAAATTCCCTGGGTTCATCGTCAGCTCGGACCTGTC
GAAGGGTGATTTTAAAAACTATGTACTGAGCCCGGATTTGAATGGGGTTCTTGAAAG
CACTGTGCATCAAGACATGACGCAGCCGTTATCGCACTACTTCATATTCACTGGTCA
CAACTCGTACTTGACGGGTAACCAGCTTAGCAGCGACAGTAGCGACGTTCCCATTGC
TGCTGCACTGCAACGTGGCGTGCGGGTGGTGGAACTGGATTTGTGGCCTGACGATAA
AGGCGGCATCAAGGTCACTCACGGGAACACACTCACCAGTCCAGTTGCTTTCGAGA
AGTGCATAAAAGCCATCAAGGCCAACGCGTTCGTCTCCTCGAAATATCCTGTAGTTA
TCACTCTTGAGGATCATCTTTCAAGTCCTTTACAGGCCCTTGCTGCAGAGACTTTGAC
GAACATTTTGGGAGAGGACTTGTACTATCCACCCTCATCCGATGGGTTTAAAGAACT
GCCTTCTCCGGAATCATTGAAAGGGAAAATTCTAATATCTACCAAACCGCCGAAAG
AATACCTTGAAGCCGCTGTCGCA

FIGURE 1B

Nucleotide sequence of the partial PLC-2 from *Physcomitrella patens* (SEQ ID NO:2)

CGGCACCAGGCGGCATGAAGGTCACACACGGAAACACACTTACCAATCCGGTGTCG
TTCCAAAAGTGTGTCACAGCCATCAAGAATAACGCCTTCTTCACCTCGGAGTACCCA
GTTTGCGTTACTATTGAGGATCATCTTACAAGCGAATTACAGGGCCATGCTGCAGAG
ATTTTAGAGCAAATTCTCGGAGACGCCCTGTATTATCCACCCACAACTGATGCATTA
GTGGAGTTTCCTTCACCGGAGTCACTGAAGAGGAAGATCATAATCTCCACCAAACCG
CCGAAGGAGTATCTCGAAGCATGTTCCACGCAGAAATTGGCCATGGAGAACAGGAA
TCTGGTGGAGGAGCTCGAGAAGGAAGACAAATTGGAGCAGACCACATTCGCTCCCC
TTGAAGAGAACCACATCCTGGGAGAAAATACACCATCGCTGCGTAAGGAAGTCGAG
GTTTTAAGCCAAAAGGAAATGTCAACACCAAGCTGAGCTTAACTCTAGAAAGTCCCT
CCTGGACCTCGGGGAAGCAACCATCCACAAGGTATAGCAAAGAGCAACGATGGCAA
TGACAACCCTAAAACATTTCAAGTATGCCCGGTTCATCAACATCCGGCTAGCAAACA
CGCAACGGGGACATCGTGGCGCTCGCACTGCCAGTCGATGGATCAGAACGGATCAG
CGGCGATCNATGAAAAGGGGAATGCCGA

FIGURE 1C

Nucleotide sequence of the partial 14-3-3P-1 from *Physcomitrella patens* (SEQ ID NO:3)

TTTTTTTTTAATTGTAAACCGCACAGCCCGGACACAAAACCATCCCACTGCACGAGT
CAGATATAACCGTACATGATGTTTATAATGCATTGTTCATTTTAATATTAAAATCTTA
GCATTCCTCATCCTAGCCAACGAAGGAAAGAAAAAAGAGAAAAGAAAAGGACAAA
AGAGGAAATCTATGAACAGCCAGTCTCTACGCAGAACAAAATAGGCAAGACATGTC
ATACAACCGCCAGCACGGAACTACACTACGTCTCGCCCCGGCCTACCACCAATCAAT
TGAGGCTCTTTCCGAATCCACCCCATCAGAAAAGACTTGATTGTCGTGATCACTCCG
CTTCCTCCGGTCTCATGTCATCTCCCTTTCCCTGGTCGTCGCCTACATCGTCCTGGAG
ATCTGACGTCCATAAAGTCAGATTATCTCTAAGTAGTTGCATGATCAATGTGCTGTC
CTTGTACGACTCCTCACTCAATGTGTCCAATTCGGCAATTGCCTCGTCGAATGCTTGC
TTCGCCAAATGGCATGCCCGCTCAGGGGAGTTCAAAATCTCATAATAGAAGACAGA
GAAGTTCAAGGCCAGTCCCAGCCGAATCGGATGAGTTGGCGCCAAGTCTGTCACTTG
CTGTATTAGATGCAGCCTGGTAGGCCTTCAAAGATTGGTCAGCAGCTTCTTTTCTCTC
AGCCCCAGTTTTGAACTCCGCCAGGTACCGATAGTAATCTCCCTTCATTTTATAGTAG
AACACAGTGGACTCTCCCGTGCTGGACGAAGGAATCAAATGTCCGTCGATGATAGA
CAGGATATCATTGCAGATCTTCGACAGCTCCTCCTCCACCTTGTGTCTGTAGTCCTTG
ATGCGTTTAACATTCTGTTCGTTACCTTTGCTCTCCTCCTTCTGTTCGATGGATGACAT
GATCCGCCATGACGCCCTCCGGGCTCCGATGACATTCTTATAACCCACGGACAAGAG
ATTTCGCTCCTCTACTGTCAGCTCCACATCAAGCTTGGCAACCTTCTTCATCGATTCC
ACCATCTCATCGTAACGCTCCGCCTGCTCGGCGAGCTTGGCCATGTACACATAGCTC
TCGCGCTCCTTCTCCGTACTCATCTTGGCCTAGCACACTCGTCCACGACAGTCCGAA
ATAGCAGTATCGCGCACCGTCCCCCGAGCACAAACCAAGCGCAGAACGGCAACACA
CTATGCAATGTAAAGGAAACGCAGACACAAGAGGAGACGGAAAAAACAATAGAGG
CAGGAAGAGAGTGGGAGAGAAGAGACGGGGGAGCGGGGCGATGGAGGAGCACGG
TGAGCTGGTGC

FIGURE 1D

Nucleotide sequence of the partial 14-3-3P-2 from *Physcomitrella patens* (SEQ ID NO:4)

GCACGAGCACTGTTACATCGTCGTAGATCTGGTCAGATACCANAACCGGCGAGAAG
CATGCAACACAAGAAAACCTGGAGATGTAATGGTTATGCCGATAGGGTTTCATTTAA
AACAATCTACATAACCCAGTGCTAATTGTTCTGGGAAGTCGAGCACATATCCGTACC
AGCCTCAACTTAGTCGCCTGGACATGAGTTTCTATTCTAAGTTCTAGTGGTCATCANC
ATCTTCGACCTTGGAATCCTTTCCTTCTTCACCAATGNCGTCCTGCATATCTGAAGTC
CATAAGGTAAGGTTATCCCGGAGCAGCTGCATAATGAGAGTACTGTCTTTGTAGGAT
TCCTCTCCTAAGGTATCTAACTCAGAGATAGCTTCATCAAAAGCCTGCTTGGCAAGA
TGGCATGCTCGGTCTGGAGAAACCAAAATTTCGTAGTAAAAGACAGAAAAATTCAA
AGCCAATCCCAATCTGATCTCGTGCC

FIGURE 1E

Nucleotide sequence of the partial CBP-1 from *Physcomitrella patens* (SEQ ID NO:5)

GCACCAGGTTTTAGTAACAGATGGGAAATACTGCAAGAGCGTTTGGTTGTTGAAAG
GGCCTACAGTTGTAAACTAGGCGATCACAAGTGCATTGCTTCATTGAGCTTTCGCAT
GGACTCAATCCAGCTATTGATCTCAATCTTTGTTTTTTCTAAAACATTTTTTCACACA
GATGAGCCGGTAGTAGTGTCAGTACTAGACGGCTCAGCAATTAAGGCTTTGCTAGA
AGATGAAGATGATTTTGCGATGGTTGCCGAGGATCTGTTTGAGAAGTTAGACACTGA
TGAGAGTGGCAAGCTGAGCAGCAAAGAGCTTCGACCTGCCATTATGCAGCTGGGCG
TTGAGCAGGGTGTCCCTCCTGCCGCAGCTACTACTGAAGCGGAGGAATTGGTTACCA
AGTTGATCAACAAGTACGGCCAGGGAACCGAGGAGCTTGGACAAGCTCAATTTGCT
GCATTATTGCAAGATGTCCTTCAGGATATGGCCGAGTCTCTTGCAGAGAAACCTATC
ACAATTGTACGAGATGTGAAAATGCTCAACGGCTCTCATTTGCGAAAGATGCTTGGC
TGATGAGAAGGCATTCAAAGGAAATGGCAGATAACATGTTTTAATTGACCTCAGAT
GTCAACAAAAGATCAACGCTTGAGCAAGTGAAATCAGACCATTATTTGAACAACAA
ACTGAGCGTGGGGGTCTACCTCCCGTGGTGATTCGGCACAAANAATATTGACGAGTT
TCAGGCGTGNTCCACAAACATGGGNAGTGAAGCCGNTTTGGATCGGCANACCCCGC
GGTTTGGGAACNNGGGGTC

FIGURE 2A

Nucleotide sequence of the full-length PLC-1 from *Physcomitrella patens* (SEQ ID NO:6)

ATCCCGGGAATCGTCGGGTGACATTCCTGTTCCTACTGCTGTTTGGCCCATTCGTCCA

CTCGGCCCATCTCCACTGACTTCCCCAATTGAGATCAGATGGTCTTGTAAGGCAGAG

AGCGAGCGAGAGAGAGAGAGAGAGAGAGAGAGAGATTGGGAGTTGAGGCGAAGG

GGAGGTGTCGGAGGGGATTTATTGTGCCGTAGCTGGGTTTGCAAAAATGTGTTCTAT

TCCGTTCGGTCGGAAGAAGTCCAAGAAGGGGGATTTGGCGCAGGATCTGTTGGGGG

ATGTGTTCTCGACTTACAGCGAGAATGGGAAGCTGGACGCCGAGGGGTTGCTGAAG

TTCTTGCAGACAGAGCAAGGGGATAGCAAGTCCTCTCTAGATGACGCCAAGCATTTA

GTGGAGTTGATTCGGAATGAGAGACATAAGTCGAAATTCCCTGGGTTCATCGTCAGC

TCGGACCTGTCGAAGGGTGATTTTAAAAACTATGTACTGAGCCCGGATTTGAATGGG

GTTCTTGAAAGCACTGTGCATCAAGACATGACGCAGCCGTTATCGCACTACTTCATA

TTCACTGGTCACAACTCGTACTTGACGGGTAACCAGCTTAGCAGCGACAGTAGCGAC

GTTCCCATTGCTGCTGCACTGCAACGTGGCGTGCGGGTGGTGGAACTGGATTTGTGG

CCTGACGATAAAGGCGGCATCAAGGTCACTCACGGGAACACACTCACCAGTCCAGT

TGCTTTCGAGAAGTGCATAAAAGCCATCAAGGCCAACGCGTTCGTCTCCTCGAAATA

TCCTGTAGTTATCACTCTTGAGGATCATCTTTCAAGTCCTTTACAGGCCCTTGCTGCA

GAGACTTTGACGAACATTTTGGGAGAGGACTTGTACTATCCACCCTCATCCGATGGG

TTTAAAGAACTGCCTTCTCCGGAATCATTGAAAGGGAAAATTCTAATATCTACCAAA

CCGCCGAAAGAATACCTTGAAGCCGCTGTCGCACAGAAGTCGGCGTTGAAAGATGA

AAAGATTTTGAATGAGTTCAAGAAGGCAGATAAGTTGCAGGAGCAGTCAACTGCTC

CTGTTAAAAGCCCCGTTGAGAAAAAGATTGCAGTTCCACCATCAGAGAAGACAAAA

TCCATTTCCGAAGAGAAGGACTTGAGTGAAAAAGTTGGAAATTTACGTGTTGATTCA

FIGURE 2A Continued

GAGGGTGAATCAGCTGATCCTGCCCCTGCAAGTTCCCCCGACGGTAAGAAAGCAAC

ATTGACAGCGGATAGTGAAAGTGACGATGACGACAATAAGAAGAATCCTGAGTATG

CTCGGCTTATCACTATCCACCAATCGAAGCCTTCGAAAGGAACTACCGTGGAAGAC

AGACTGAAAGTTGAAGGGACAGTGGTACGGATTAGTCTTTCAGAGACTAAGCTGGA

GAAGGTCACTGAAGAGTTTCCTGAACTTGTGGTCAAGTTCACGCAGAGGAACATTCT

ACGTGTGTATCCTGCTGGTAACCGAGTAAACTCGTCCAACTATGATCCTACTGCGGC

TTGGATTCACGGAGCTCAAATGGTGGCTCAAAATATGCAAGGTTATGGCAAAGAGC

TCTGGCAAGCCCACGGCAAGTTCAGGGGAAATGGTGGCTGTGGATACATCCTTAAG

CCAAAGTATCTATTGGAAGATTTGCCCAATGGTAAACCTTTTAACCCTTCAGGACAA

AGCGTTCCCCAAATACCATTTCGACCTTTTCTCGCCTCCAGATTTCTTCACTAGGCTG

CTTGTGACTGGAGTGCCTGCCGATGTGGCAAAGTGGAAAACTTCCGTTATAGATGAC

GTTTGGGAACCCCACTGGAACGAGGATCACGAGTTTTACCTTAAATGCCCTGAACTT

GCACTGCTCCGAATTGAAGTTAGAGATCACGACGAGGAAAGTCAAGATGAGTTCGA

AGGGCAGGCGTGCCTTCCAATGCATGAAATTAAAGACGGCTATCGATGCGTGCAGA

TGTATGACAAAAAGGGCAGTGTGTTGAAGGGCGTGAAAATGTTGTTCCATTTTCAAA

AACGTTCGTTTTCTCCGGTCCAGTAATTCATCGTTTTCAAAAACATTTCTGTCTCAAT

CCTGCAACGAGTAATTTTAGAGAAGGAAGGCTAACGCACTCGAGATGTCTGAAAGG

TGAAGAGTTGGAGGGAAGAAGGGTAGCTCGCTGTATCACCGAGCTCTAGTGAACTT

CAGGTGTCATTCTTTGAGGGCAGCTCATCTTTCTCATGCATGTGGAACGCTGAGGTG

TTGGTTAACGC

FIGURE 2B

Nucleotide sequence of the full-length PLC-2 from *Physcomitrella patens* (SEQ ID NO:7)

ATCCCGGGCTTCGGGAGTTTAAGAGGATGTCACGGCGTGGGAAGACGAGGCGGTGA

TGCAGGTTTGGGTGGAGCTTAAGGTTGACGGAGTGTAAGGGATCGGCTCGTCACTG

GGTTTGCAAAATGTGTTCCATAGCATGTTGTCGAAGTGGAACCCCGAAAGGGGATCC

GGAGCAAGACCTGGTGGGGGAGGTGTTCACAATATACAGCGAGAATGAGAGGATG

AGTGCGGAGGGGTTGCTGAAATTCTTGCATACAGAGCAAGGGGATGTCGACTTCAC

CCTTGATGACGCCAAGCAGATCATGGAGCGCATTCGCAAGGACTGGAAGAAATCCT

TCGGACTCGCCTCTATCAACTCAGACTTGTCGAAGGAGGCTTTTCGGAAGTACTTGA

TGAATCCCGACTTGAATGGCGTCTTACACAACGTTGTTCACCAAGACATGACGCAGC

CGATGTCGCACTATTTCATATTCACGGGCCATAACTCGTACCTGACCGGCAACCAGC

TGAGCAGCGACAGCAGCGACACACCCATCGCTGCGGCACTGCGGCGCGGCGTGCGG

GTTGTGGAATTGGACTTGTGGCCTGATGACAAAGGCGGCATGAAGGTCACACACGG

AAACACACTTACCAATCCGGTGTCGTTCCAAAAGTGTGTCACAGCCATCAAGAATAA

CGCCTTCTTCACCTCGGAGTACCCAGTTTGCGTTACTATTGAGGATCATCTTACAAGC

GAATTACAGGGCCATGCTGCAGAGATTTTAGAGCAAATTCTCGGAGACGCCCTGTAT

TATCCACCCACAACTGATGCATTAGTGGAGTTTCCTTCACCGGAGTCACTGAAGAGG

AAGATCATAATCTCCACCAAACCGCCGAAGGAGTATCTCGAAGCATGTTCCACGCA

GAAATTGGCCATGGAGAACAGGAATCTGGTGGAGGAGCTTGAGAAGGAAGACAAA

TTGGAGCAGACCACATTCGCTCCCCTTGAAGAGAACCACATCCTGGGAGAAAATAC

ACCATCGCTGCGTAAGGAAGTCGAGGTTTTAAGCCAAAAGGAAATGTCAACACCAG

CTGAGCTTAACTCTAGAAGTCCCTCTGACCTCGGGGAAGCAACATCCACAAGGTATA

GCAAGAGCAACGATGGCAATGACAACCCTAAACATTTCAAGTATGCCCGGCTCATC

FIGURE 2B Continued

ACAATCCGGCTAGCAAAGCACGCAAAGGGGACATCGATGGAGCATCGACTGCAAGT

CGATGAATCAGTGAAACGGATCAGTCTGTCGGAATCGAAGCTGGAAAAAGTGGTGG

AAAAGTGGCCCGAAGCTCTGGTCAAATTCACGCAGAAGAACATTTTACGTGTGTATC

CTGCTGCTAATCGTGTAAACTCCTCCAACTTCTGCCCTACTCTGGCTTGGAACTACGG

AGCTCAAATGGTGGCTCAAAACATGCAGGGCTATGGTAAAGAGCTTTGGCAGGCAT

TTGGCAAGTTCAAGGGAAATGGGGGATGTGGGTATGTTTTGAAGCCACAGTATCTGT

TGGAAAACTTGCCTTCTGGTGTGCCTTTCAACCCCACATCACCCAGAAACACAACCC

TAATTCTCAAGATTAAAGTTATGACTACCTTGGGATGGGACAAGGCCTTTTCCAAAC

GCCATTTTGACCTATTCTCACCTCCAGATTTCTTCACTAGGGTGATTGTGGTGGGAGT

GCCTGCTGACGAGGCCAAGTGGAAGACATCTGTGGTGGACAATTCATGGGCACCCC

ATTGGAATGAGGACCATGAGTTTGCCCTAAAATGCCCTGAGCTCGCACTACTTCGCA

TCGAGGTCCGAGACCATGATGATGATAGCAAAGATGAGTTTGAAGGGCAGACATGC

CTTCCCATCCATGAAGTCCGGGATGGGTATCGGTGCATGCAAATGTACGACAAGAA

GGGCAATGTACTGAAAGGCGTGCTGATGTTGTTTCATTTTCAAAAGTGCAAATGCAC

CTTTCAAGACACAGCTCCTATATCCTCTTAAACTCAACCCGCCCACACATGGCCCCA

TTATCAATTACTAATGCTGCTTTTTATGTTGCCATTGTCATATAATTGTTGGTTTGTGG

GGGGGAAGACTGACCAGTTTAGTGTGTGCACCCAAGGTTAACGCC

FIGURE 2C

Nucleotide sequence of the full-length 14-3-3P-1 from *Physcomitrella patens* (SEQ ID NO:8)

ATCCCGGGCGGACTGTCGTGGACGATGTGCTAGGCCAAGATGAGTACGGAGAAGGA

GCGCGAGAGCTATGTGTACATGGCCAAGCTCGCCGAGCAGGCGGAGCGTTACGATG

AGATGGTGGAATCGATGAAGAAGGTTGCCAAGCTTGATGTGGAGCTGACAGTAGAG

GAGCGAAATCTCTTGTCCGTGGGTTATAAGAATGTCATCGGAGCCCGGAGGGCGTC

ATGGCGGATCATGTCATCCATCGAACAGAAGGAGGAGAGCAAAGGTAACGAACAG

AATGTTAAACGCATCAAGGACTACAGACACAAGGTGGAGGAGGAGCTGTCGAAGAT

CTGCAATGATATCCTGTCTATCATCGACGGACACCTGATTCCGTCGTCCAGCACGGG

AGAGTCCACTGTGTTCTACTATAAAATGAAGGGAGATTACTATCGGTACCTGGCGGA

GTTCAAGACCGGGAATGAGAGGAAAGAGGCCGCTGACCAATCTTTGAAGGCATACC

AGGCTGCATCCAGCACTGCAGTGACGGACCTGGCACCGACGCATCCTATCCGACTG

GGATTAGCTTTGAACTTCTCGGTCTTTTATTATGAAATTTTGAACTCTCCTGAGAGGG

CATGCCATTTGGCGAAACAAGCATTTGACGAGGCGATTGCTGAGTTGGATACGTTAA

GTGAGGAGTCGTACAAGGACAGCACATTGATCATGCAGCTACTTAGAGATAATCTG

ACCCTGTGGACATCTGACCTTCAGGACGAGGGAGGTGACGACCAGGGAAAGGGAGA

TGATATGAGGCCCGAGGAGGCTGAGTGATGACGATTAGGTCTTTTATGTGGAGACG

AATTTGCAAATCACTTCACTCAATTGGTGGTGGGCCGGGGCAAGAAGATGTGCAGTT

GCGTGCCGAGCTCGC

FIGURE 2D

Nucleotide sequence of the full-length 14-3-3P-2 from *Physcomitrella patens* (SEQ ID NO:9)

GCGTTAACTTCACAATGACGGAGCTACGAGAGGAAAATGTGTACATGGCTAAGCTC

GCCGAGCAGGCGGAGCGGTACGATGAGATGGTGGAAGCCATGGAGAATGTGGTAA

AGGCGGTGGAGAACGAGGAGCTGACCGTGGAGGAGCGGAACCTGTTGTCGGTGGCG

TTTAAGAACGTGATTGGTGCGAGGAGGGCGTCGTGGCGGATCATCTCTTCCATCGAG

CAGAAGGAAGAGGCCAAGGGGTCTGAGGAGCACGTCGCTGCTATTAAGGAGTACCG

ATCCAAAGTAGAGGCTGAGTTGAGCACCATCTGTGACACTATATTGAAGCTTTTGGA

CTCGCACCTGATCCCGTCCTCCACCTCGGGGGAGTCGAAGGTTTTTTACTTGAAAAT

GAAGGGAGACTATCACAGGTACCTGGCTGAGTTCAAAGCCGGCGCTGAGAGAAAAG

AGGCAGCTGAGGCTACATTGCACGCGTACAAGCATGCACAAGACATTTCAACGACA

GAGTTGGCGTCCACACATCCTATCAGATTGGGATTGGCTTTGAATTTTTCTGTCTTTT

ACTACGAAATTTTGGTTTCTCCAGACCGAGCATGCCATCTTGCCAAGCAGGCTTTTG

ATGAAGCTATCTCTGAGTTAGATACCTTAGGAGAGGAATCCTACAAAGACAGTACTC

TCATTATGCAGCTGCTCCGGGATAACCTTACCTTATGGACTTCAGATATGCAGGACG

ACATTGGTGAAGAAGGAAAGGATTCCAAGGTCGAAGATGCTGATGACCACTAGAAC

TTAGAATAGAAACTCATGTCCAGGCGACTAAGTTGAGGCTGGAGCTCGC

FIGURE 2E

Nucleotide sequence of the full-length CBP-1 from *Physcomitrella patens* (SEQ ID NO:10)

ATCCCGGGTCAGCTCGTGGAAGTGTTGCAGCAGCGCGGACGGGCAGGATCGGACAT

TTTGAGATTTTTGACAGGGCTATCAGAGGTGTTCAGAAGGGACGACAAAGACCAGC

ATGTCAACAGAGGGAGGACTGCATGTTCTTGATGGATCTCAGATCAGAAATGCATTA

CCCGATCTTCAATCGAGGAACAGTTTTTCTAAGAATGATGAAGGGTCGAAAGGGTAT

CTGACACCATCTGAGATGCGGCAGGCTGCGGAAGCAGAAGCAGCCGCTCTTCTCTT

AGGTGTCCAACTTTCCTCAAAGATTTTTGAAAATGCTGCATCAAAACTTCCAACTGA

AGATTCTGCAGAGATCACGGAGGACGTGTTTTCCAGTACTCTGCAGAGTTATCTAAC

AGCAATTGCTGATGCTTTAGAAGATGAGCCGGTAGTAGTGTCAGTACTAGACGGCTC

AGCAATTAAGGCTTTGCTAGAAGATGAAGATGATTTTGCGATGGTTGCCGAGGATCT

GTTTGAGAAGTTAGACACTGATGAGAGTGGCAAGCTGAGCAGCAAAGAGCTTCGAC

CTGCCATTATGCAGCTGGGCGTTGAGCAGGGTGTCCCTCCTGCCGCAGCTACTACTG

AAGCGGAGGAATTGGTTACCAAGTTGATCAACAAGTACGGCCAGGGAACCGAGGAG

CTTGGACAAGCTCAATTTGCTGCATTATTGCAAGATGTCCTTCAGGATATGGCCGAG

TCTCTTGCAGAGAAACCTATCACAATTGTACGAGATGTGAAAATGCTCAACGGCTCT

CATTTGCGAAAGATGCTGGCTGATGAGAAGGCATTCAAGGAAATGGCAGATAACAT

GTTTAATGACCTAGATGTCAACAAAGATCAACGCTTGAGCAAGGCTGAAATCAGAC

CATTATTTGAACAACAAACTGCAGCGTGGGGTCTACCTCCCGTTGGTGATTCGGACA

CAGAAGAACTATTTGACGAGGTTTTCAAGGCCGTTGACTCAGACAAAAGTGGGGAA

GTTGAAAAGCCTGAGTTTGCAGTTCTTGTCAAGACTCTCCTTGCGGATTTTGCGGAA

ACGTTGCGGCTCAACCCAATACTAGTGGAGATAGAAACTGCCTCTCGTTGAAGCATC

GAGTCATAGTTCTGGGGGAGCGATGTTTTCTAAAGTCGTAGTCCATTTTTGGATAAG

FIGURE 2E Continued

ATGACTTTGCACCCAGAGTTCTTGTGAAACGTGACACCAGGTATGATGAAGGCTTGA

TGATATTTTAGAGTGACAATTTTATGTGGCTAGAGGCTCATGAGGTCGTGAGATCGA

AGTGGAAATGATTTGTGAAAGCTACTTCGACCTGGGTAGCTTTTCTAAGCTAGGATA

GTTATATGAAAAAGATAATTAAACTTCAAGCGGATCAATATAGCTCACAGAATCCAT

TCTTCGTTTCTGTTTCCTGAGAACCCACCAATGTCCAAGTTACAAAACTCCGTGGGA

GAAACAGACGTGCAGTGCATGCATAAGGTTGGTGTGATTGTTTGCGTAGTGATGTTT

CTGGATGACTTGAATAGAATCAAGTGCATAGATAGTCAATTGTCTCACACAAGATCT

TCGAACAATCCACCAACCGGCGTTGCCAGTCGTGCGGAGGGCACGGTTGGTGGGAC

GGACTAGCGGTGCGACGCGTGTAGAGAATGCATTGGCGGCTGCAGATTAGACAGTT

GTTCGCATCCGTTGTAGGATAGATCGTTAGGATACTCGACTCTTACCTGTGTTCGAAT

TCCGGCATCGGAAGCCCCCGAGTGAAAATTGGACGAGCTCGC

FIGURE 3A

Deduced amino acid sequence of PLC-1 from *Physcomitrella patens* (SEQ ID NO:11)

MCSIPFGRKKSKKGDLAQDLLGDVFSTYSENGKLDAEGLLKFLQTEQGDSKSSLDDAK
HLVELIRNERHKSKFPGFIVSSDLSKGDFKNYVLSPDLNGVLESTVHQDMTQPLSHYFIF
TGHNSYLTGNQLSSDSSDVPIAAALQRGVRVVELDLWPDDKGGIKVTHGNTLTSPVAFE
KCIKAIKANAFVSSKYPVVITLEDHLSSPLQALAAETLTNILGEDLYYPPSSDGFKELPSPE
SLKGKILISTKPPKEYLEAAVAQKSALKDEKILNEFKKADKLQEQSTAPVKSPVEKKIAV
PPSEKTKSISEEKDLSEKVGNLRVDSEGESADPAPASSPDGKKATLTADSESDDDDNKKN
PEYARLITIHQSKPSKGTTVEDRLKVEGTVVRISLSETKLEKVTEEFPELVVKFTQRNILR
MCSIPFGRKKSKKGDLAQDLLGDVFSTYSENGKLDAEGLLKFLQTEQGDSKSSLDDAK
HLVELIRNERHKSKFPGFIVSSDLSKGDFKNYVLSPDLNGVLESTVHQDMTQPLSHYFIF
TGHNSYLTGNQLSSDSSDVPIAAALQRGVRVVELDLWPDDKGGIKVTHGNTLTSPVAFE
KCIKAIKANAFVSSKYPVVITLEDHLSSPLQALAAETLTNILGEDLYYPPSSDGFKELPSPE
SLKGKILISTKPPKEYLEAAVAQKSALKDEKILNEFKKADKLQEQSTAPVKSPVEKKIAV
PPSEKTKSISEEKDLSEKVGNLRVDSEGESADPAPASSPDGKKATLTADSESDDDDNKKN
PEYARLITIHQSKPSKGTTVEDRLKVEGTVVRISLSETKLEKVTEEFPELVVKFTQRNILR
VYPAGNRVNSSNYDPTAAWIHGAQMVAQNMQGYGKELWQAHGKFRGNGGCGYILKP
KYLLEDLPNGKPFNPSAPGDTKMILKVKVMTTMGWDKAFPKYHFDLFSPPDFFTRLLVT
GVPADVAKWKTSVIDDVWEPHWNEDHEFYLKCPELALLRIEVRDHDEESQDEFEGQAC
LPMHEIKDGYRCVQMYDKKGSVLKGVKMLFHFQKRSFSPVQ*

FIGURE 3B

Deduced amino acid sequence of PLC-2 from *Physcomitrella patens* (SEQ ID NO:12)

MCSIACCRSGTPKGDPEQDLVGEVFTIYSENERMSAEGLLKFLHTEQGDVDFTLDDAKQ

IMERIRKDWKKSFGLASINSDLSKEAFRKYLMNPDLNGVLHNVVHQDMTQPMSHYFIFT

GHNSYLTGNQLSSDSSDTPIAAALRRGVRVVELDLWPDDKGGMKVTHGNTLTNPVSFQ

KCVTAIKNNAFFTSEYPVCVTIEDHLTSELQGHAAEILEQILGDALYYPPTTDALVEFPSP

ESLKRKIIISTKPPKEYLEACSTQKLAMENRNLVEELEKEDKLEQTTFAPLEENHILGENT

PSLRKEVEVLSQKEMSTPAELNSRSPSDLGEATSTRYSKSNDGNDNPKHFKYARLITIRL

AKHAKGTSMEHRLQVDESVKRISLSESKLEKVVEKWPEALVKFTQKNILRVYPAANRV

NSSNFCPTLAWNYGAQMVAQNMQGYGKELWQAFGKFKGNGGCGYVLKPQYLLENLP

SGVPFNPTSPRNTTLILKIKVMTTLGWDKAFSKRHFDLFSPPDFFTRVIVVGVPADEAKW

KTSVVDNSWAPHWNEDHEFALKCPELALLRIEVRDHDDDSKDEFEGQTCLPIHEVRDG

YRCMQMYDKKGNVLKGVLMLFHFQKCKCTFQDTAPISS*

FIGURE 3C

Deduced amino acid sequence of 14-3-3P-1 from *Physcomitrella patens* (SEQ ID NO:13)

MSTEKERESYVYMAKLAEQAERYDEMVESMKKVAKLDVELTVEERNLLSVGYKNVIG

ARRASWRIMSSIEQKEESKGNEQNVKRIKDYRHKVEEELSKICNDILSIIDGHLIPSSSTGE

STVFYYKMKGDYYRYLAEFKTGNERKEAADQSLKAYQAASSTAVTDLAPTHPIRLGLA

LNFSVFYYEILNSPERACHLAKQAFDEAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSD

LQDEGGDDQGKGDDMRPEEAE*

FIGURE 3D

Deduced amino acid sequence of 14-3-3P-2 from *Physcomitrella patens* (SEQ ID NO:14)

MTELREENVYMAKLAEQAERYDEMVEAMENVVKAVENEELTVEERNLLSVAFKNVIG
ARRASWRIISSIEQKEEAKGSEEHVAAIKEYRSKVEAELSTICDTILKLLDSHLIPSSTSGES
KVFYLKMKGDYHRYLAEFKAGAERKEAAEATLHAYKHAQDISTTELASTHPIRLGLALN
FSVFYYEILVSPDRACHLAKQAFDEAISELDTLGEESYKDSTLIMQLLRDNLTLWTSDMQ
DDIGEEGKDSKVEDADDH*

FIGURE 3E

Deduced amino acid sequence of CBP-1 from *Physcomitrella patens* (SEQ ID NO:15)

MSTEGGLHVLDGSQIRNALPDLQSRNSFSKNDEGSKGYLTPSEMRQAAEAEAAALLLG

VQLSSKIFENAASKLPTEDSAEITEDVFSSTLQSYLTAIADALEDEPVVVSVLDGSAIKAL

LEDEDDFAMVAEDLFEKLDTDESGKLSSKELRPAIMQLGVEQGVPPAAATTEAEELVTK

LINKYGQGTEELGQAQFAALLQDVLQDMAESLAEKPITIVRDVKMLNGSHLRKMLADE

KAFKEMADNMFNDLDVNKDQRLSKAEIRPLFEQQTAAWGLPPVGDSDTEELFDEVFKA

VDSDKSGEVEKPEFAVLVKTLLADFAETLRLNPILVEIETASR*

FIGURE 4

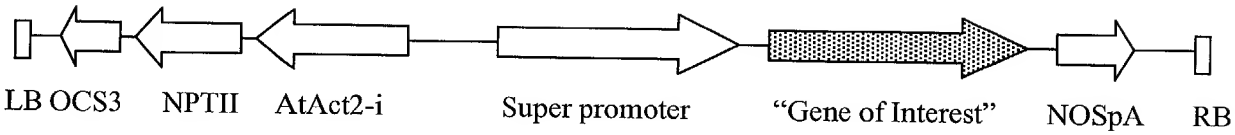

LB OCS3
NPTII
AtAct2-i
Super promoter
"Gene of Interest"
NOSpA
RB

Figure 5

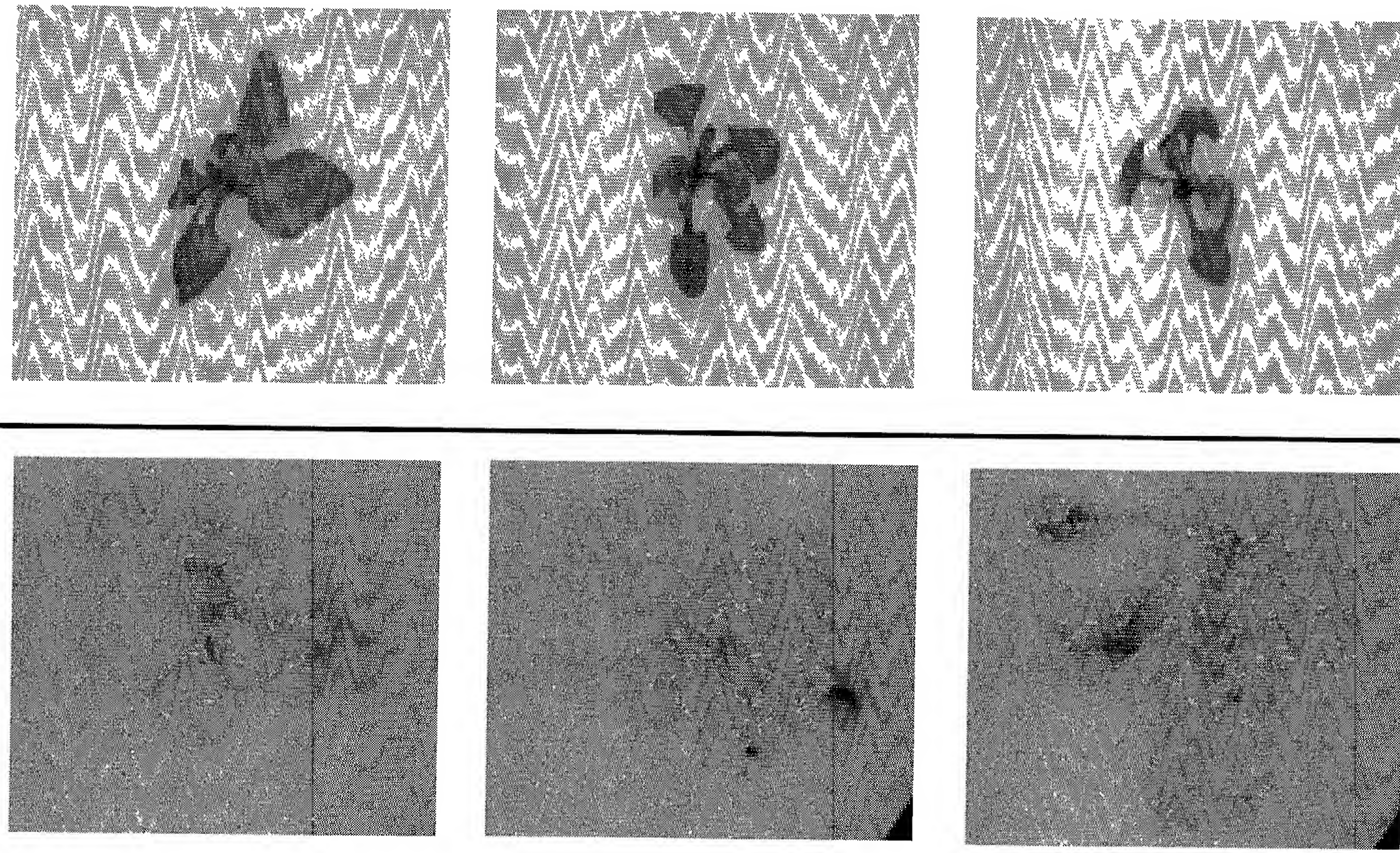
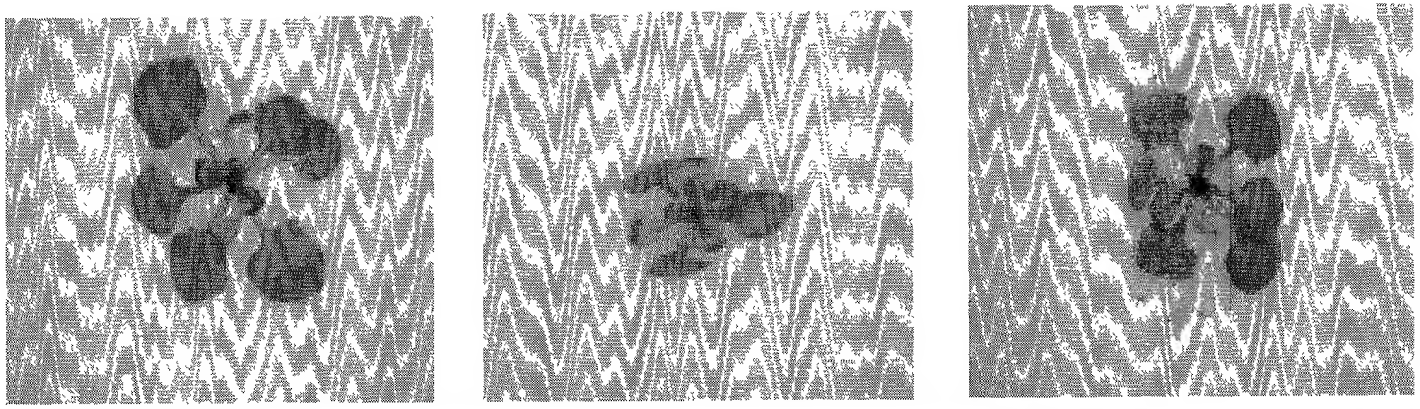
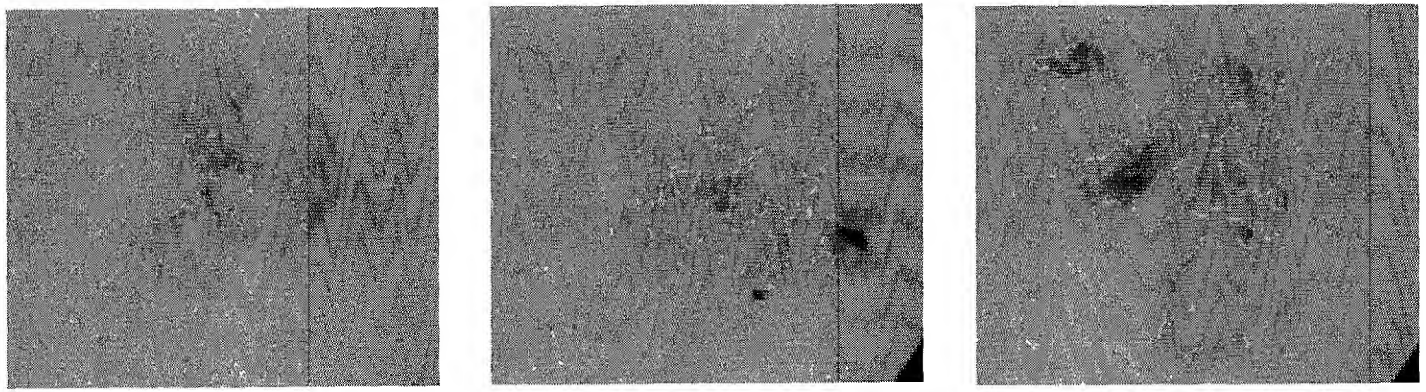


Figure 6

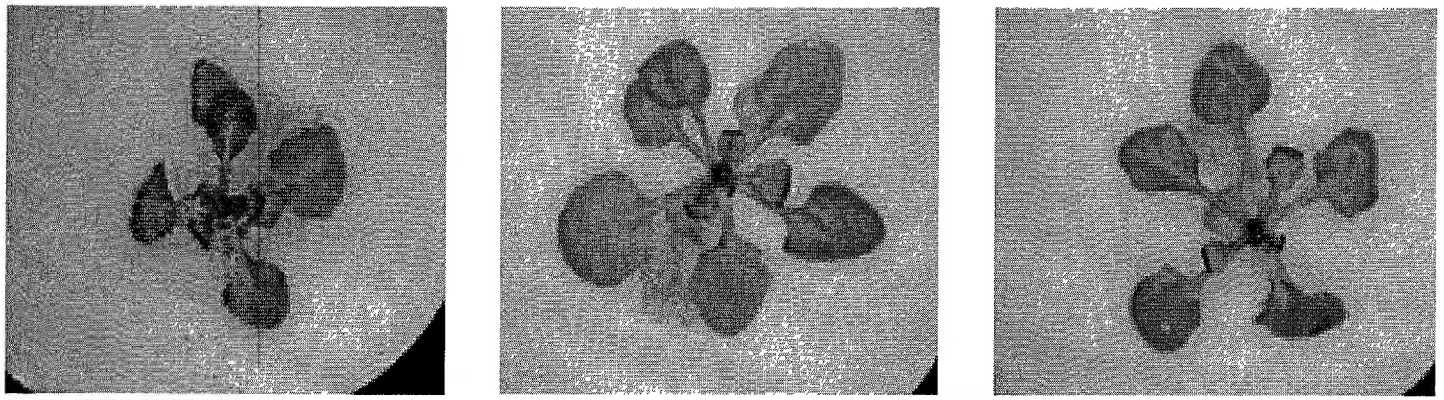


PpPLC-2



WT

Figure 7



Pp14-3-3P-1

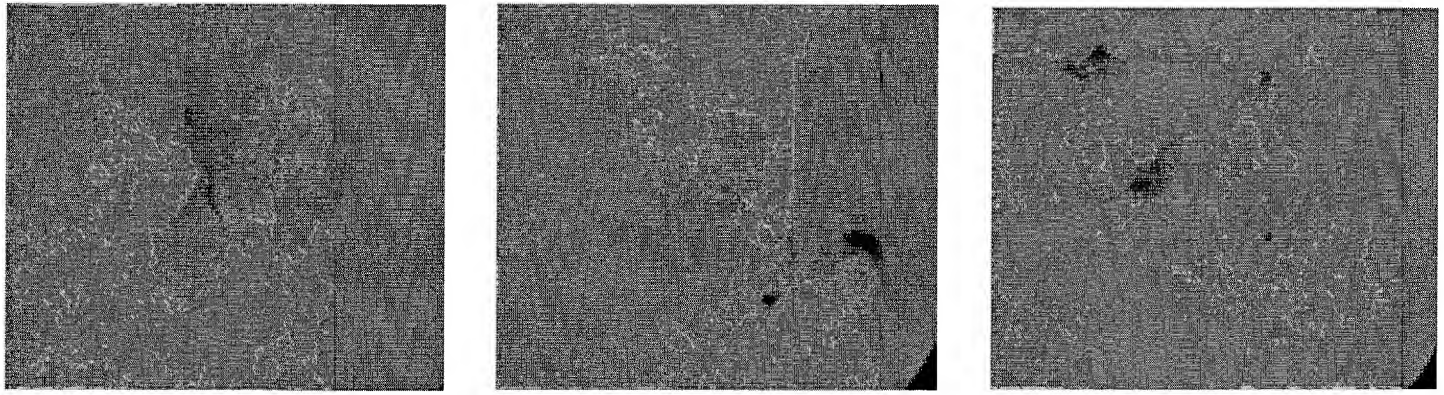


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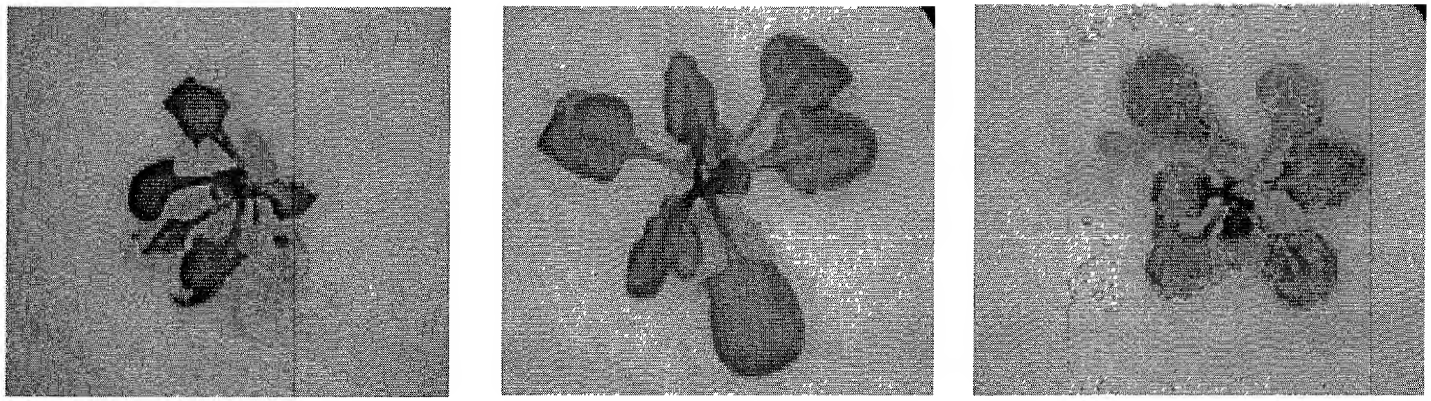
Figure 8



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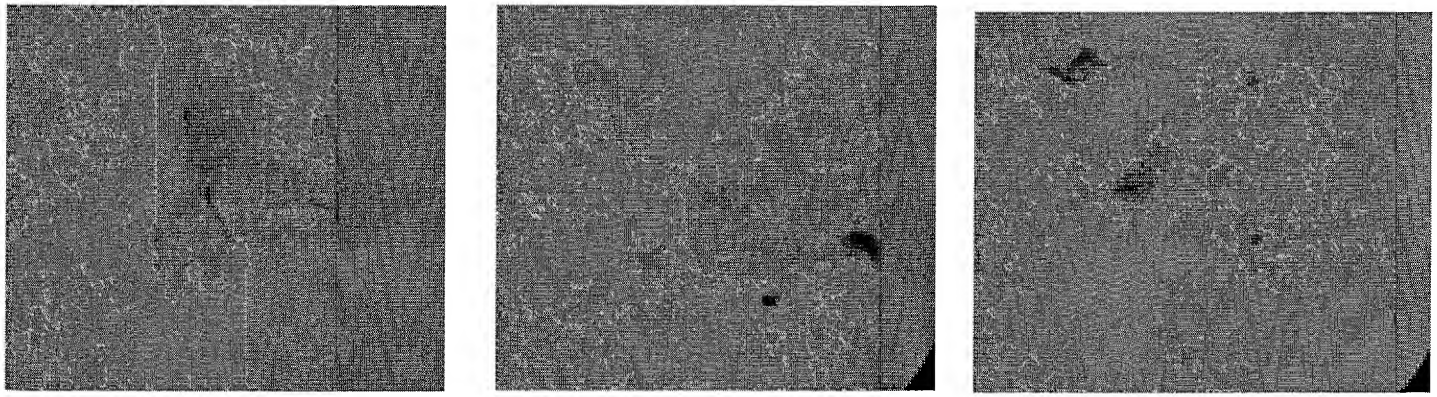
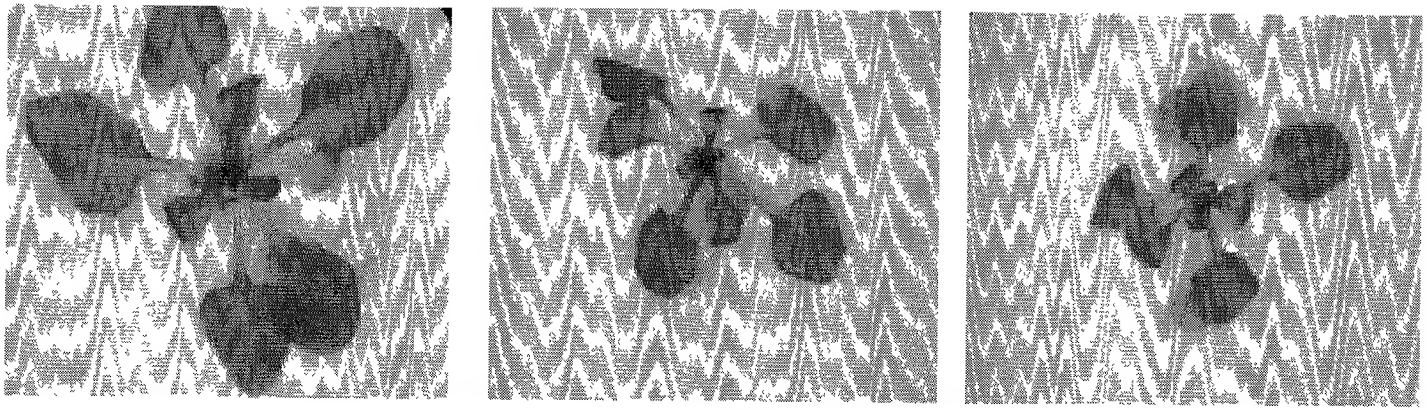
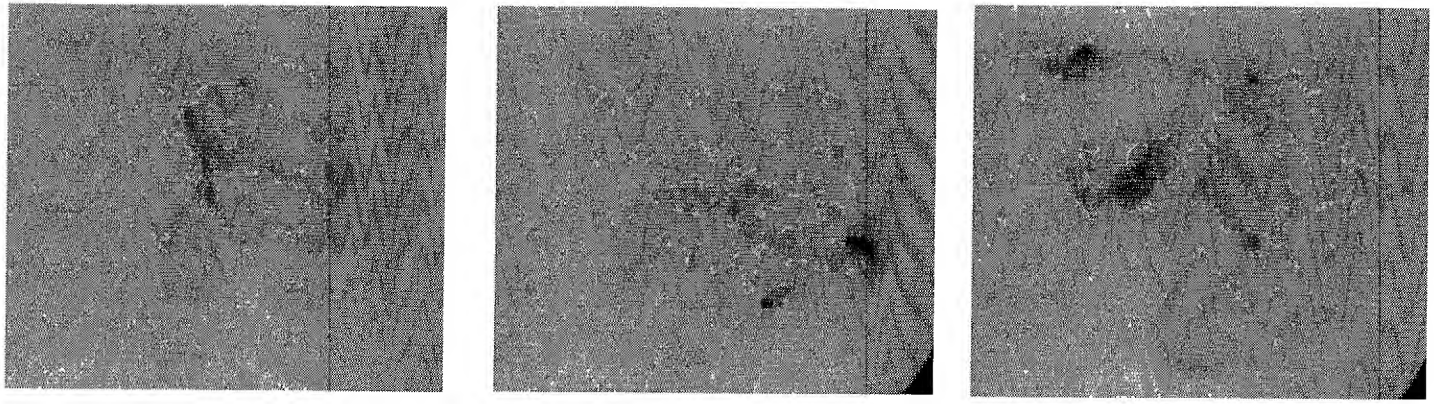


WT

Figure 9

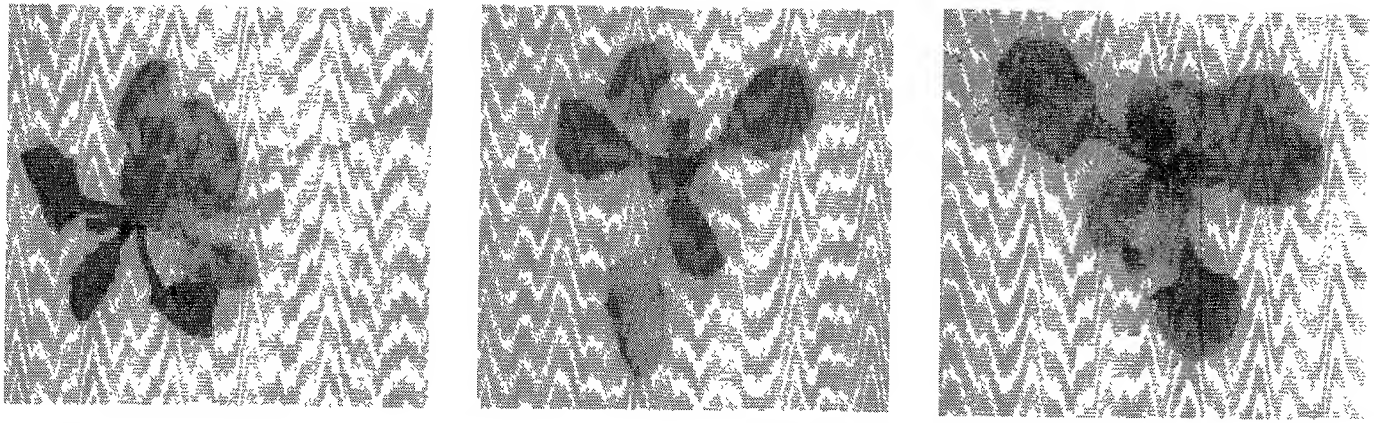


PpCBP-1



WT

Figure 10



PpPLC-2

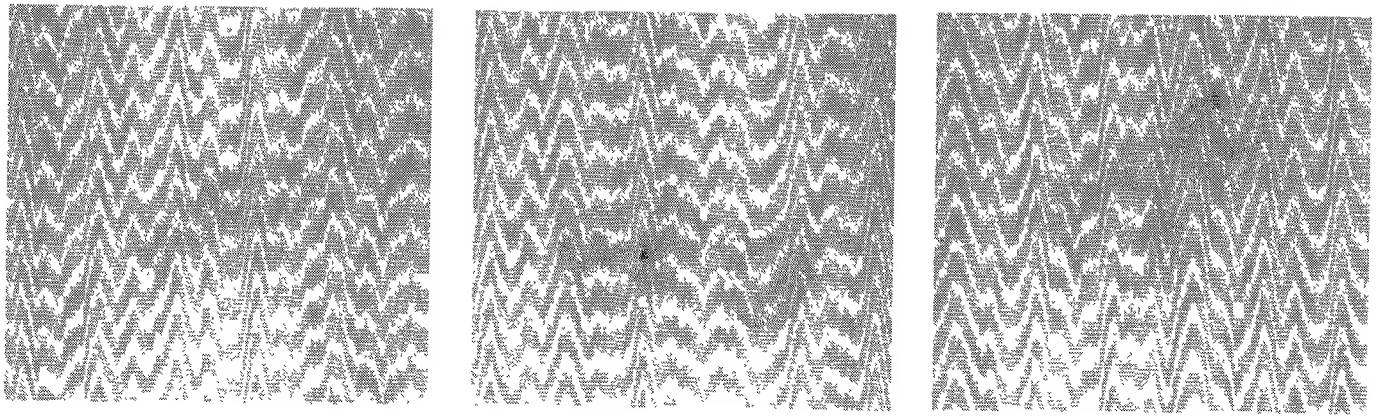


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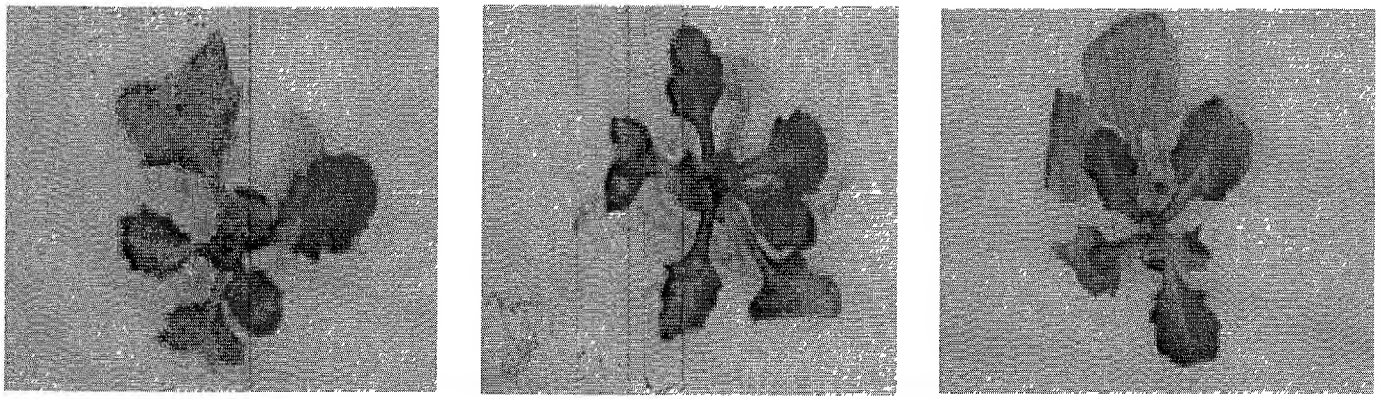
Figure 11



Pp14-3-3P-1

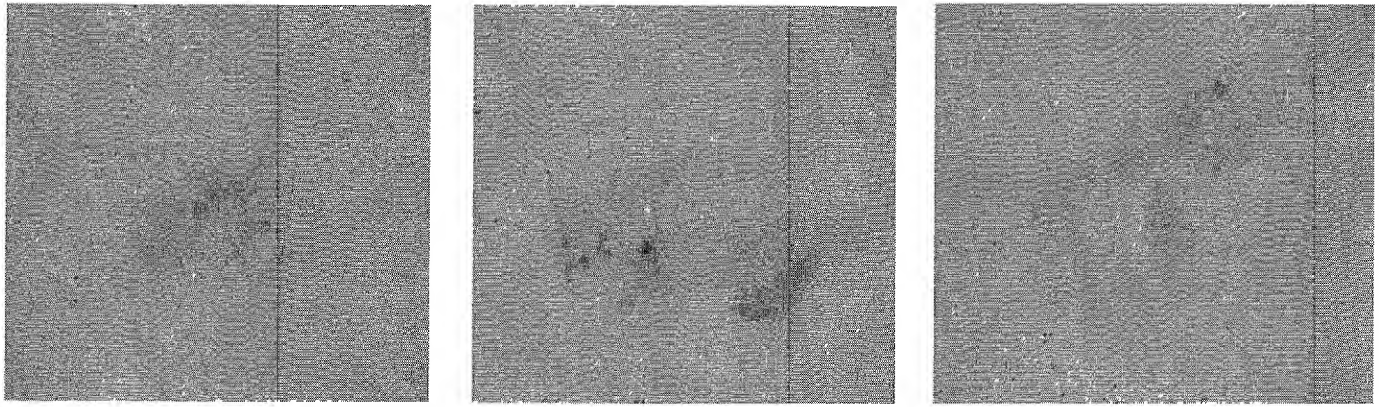


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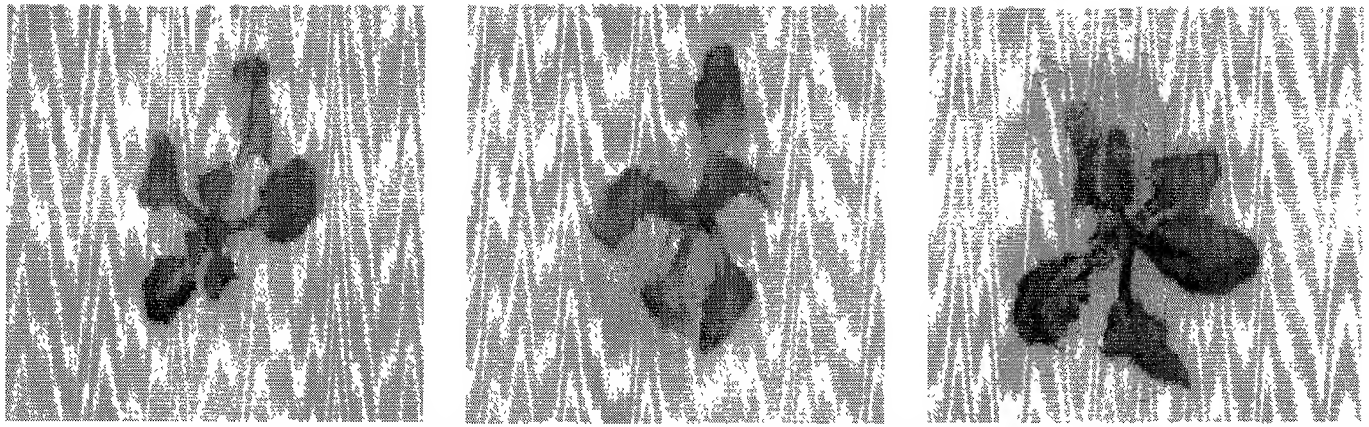
Figure 12



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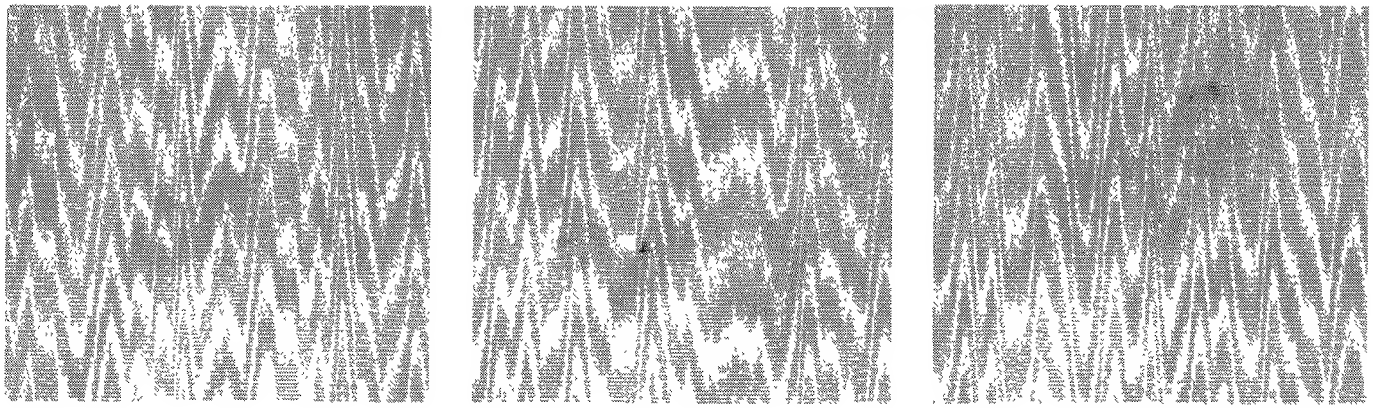

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